



# HITACHI

Electron Tube & Devices Division, Hitachi, Ltd.

Date : Nov. 21. 95

For Messrs

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CUSTOMER'S ACCEPTANCE SPECIFICATIONS

TECHNICAL DATA

## TX26D8OVC1CAA

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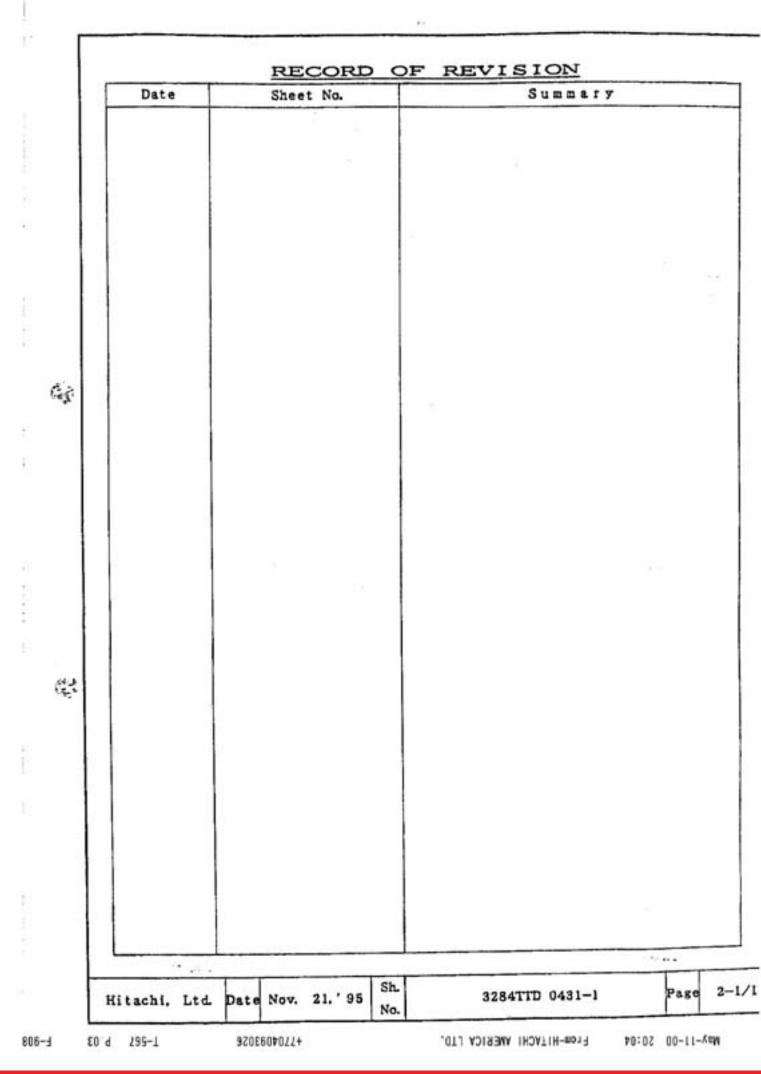
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Electron Tube & Devices	Sh	3284TTD 0431-1	Page	1-1/1
Division, Hitachi, Ltd.	No.	2204112 0101 1		

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## APPLICATIONS

This specification is applied to the following TFT Liquid Crystal Display Module with Back-light unit.

Note : Inverter device for Back-light is not built in so it should be prepared by yourself.

· Type Name

133

43

: TX26D8OVC1CAA

· Display Area

: H246×V184.5 [mm]

· Display Dots

: H(800×3) ×V600 [dots] (H800×V600 pixels)

(Display Pixels)

· Color Pixel Arrangement : R.G.B Vertical Stripe

· Display Mode

: Transmissive Mode

Normally White Mode

· Color Number

: 262k Colors

· Viewing Angle

: 6:00 Direction

· Dimensions Outline

: H276. 5×V199. 0×t8. 0 [mm]

· Weight

: Less than 500 [g]

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## 1. ABSOLUTE MAXIMUM RATINGS

#### 1. 1 ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS

	OPE	RATING	ST	ORAGE	UNIT	Note
ITEM	MIN	MAX	MIN	MAX	CIVIT	Noce
Ambient Temperature	10	40	-20	60	T	1)
Humidity		2)		2)	%RH	1)
Vibration	-	4. 9 (0. 5G)	-	19. 6 (2G)	m/s1	3)
Shock	-	29. 4 (3G)	-	490 (50G)	шуз	4)
Corrosive Gas	NOT A	ACCEPTABLE	NOT A	CCEPTABLE	-	1
Illuminance of LCD surface	-	50, 000	-	50, 000	lx	

Note 1) Environmental temperature and humidity of this unit, not of system installed with this unit.

At low temperature the brightness of CFL drop and the life time of CFL become to be short.

Ambient temp. Ta ≤ 40°C: 85%RH MAX. Without condensation

Ta > 40°C : Absolute humidity must be lower than the humidity of 85%RH at 40°C. Without condensation

- 3) 20~50Hz.
- 4) 7ms.

#### 1. 2 ELECTRICAL ABSOLUTE MAXIMUM RATINGS

(1) TFT LIQUID CRYSTAL DISPLAY MODULE

V, = 0V

ITEM	SYMBOL	MIN	MAX.	UNIT	NOTE	
Power Supply Voltage	V <sub>o o</sub>	0	4. 3	v		
Input Voltage	V,	-0. 2	V <sub>0 p</sub> +0. 2	v	1)	
	Vesoo	±	100	V	2), 3)	
Electro-static Durability	Vasos	±	8	kV	2).4)	

- Note 1) Vsync, Hsync, DTMG, DCLR, RD, GD, BD, are subjected.
  - 2) 200pF-2500, 25C-70%RH
  - 3) I/F connector pins are subjected.
  - 4) The surface of Metal bezel and LCD panel are subjected.

#### (2) BACK-LIGHT UNIT

ITEM	SYMBOL	MIN.	MAX	UNIT
Lamp Current	I.	0	5	πА
lamp Voltage	V.	0	2000	v

	+						1	
Hitachi,		h	Man	21 ' 05	Sh.	3284TTD 0431-1	Page	4-1/1
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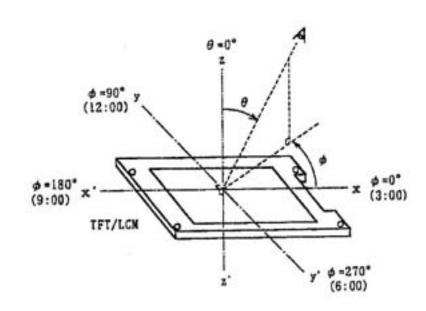
## OPTICAL CHARACTERISTICS

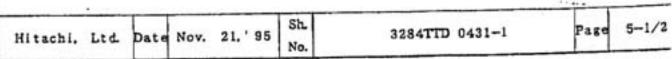
The following Items are measured when the conditions of this unit (TFT panel and Back-light) and measuring systems are stable. The ambient light excluding Back-light is nothing.

· Measuring equipment : TOPCON BM-7, Prichard 1980, or equivalent

ITEM		SYMBOL	CONDITION	MIN	TYP.	MAX.	UNIT	NOTE
Contrast Ratio		CR		30	80	-	-	2)
	RISE	tr	i i	-	35	90		3)
Response Time	FALL	tf		-	20	60	ms	3,
Brightness (whi	te)	Twh		-	70	-	cd/m²	
	Τ	x			(0. 58)	9252		
	Red	У	€=0*	-	(0. 34)			
	-	x	Note 1)			1		
	Green	7	7	-	(0. 54)	177	_	
Color of CIE		x			(0. 15)	_		
	Blue	Blue	Ī	_	(0. 13)			
		x	1	1000	(0. 31)	Star		
	White	7	1	-	(0. 32)			

Note 1) Definition of Viewing Angle





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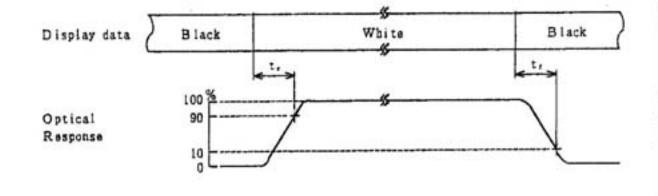


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Note 2) Definition of Contrast Ratio (CR)

Brightness when displaying White rastar Brightness when displaying Black rastar

Note 3) Definition of Response Time



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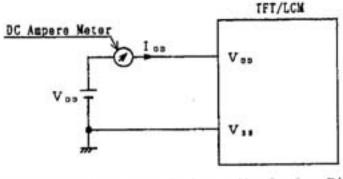
# ELECTRICAL CHARACTERISTICS

## (1) TFT LIQUID CRYSTAL DISPLAY MODULE

Ta=25C, V. =0V

ITEM	SYMBOL	MIN	TYP.	MAX	UNIT	NOTE	
Power Supply Voltage		V <sub>n n</sub>	3. 0	3. 3	3. 6	v	
Input Voltage for Hi Logic Circuits Lo		V <sub>1 R</sub>	0. 75×V <sub>0</sub> s	-	V <sub>o o</sub>	v	1)
		V, L	V.,	-	0. 25×V <sub>b</sub> <sub>o</sub>	1	17
Power Supply Current		Inn	-	190	370	mA	2). 3)
Vsync Frequency		fv	-	60	65	Hz	Name Com
Hsync Frequency		fu	-	37. 5	39. 2	kHz	
DCLK Frequency	7 7	fere	-	38. 4	40	MHz	

- Note 1) Display data pins and Timing signal pins are subjected.
  - 2) fv=60Hz, fCLK=36MHz, Ven=3. 3V, DC Current



Typical value is measured when displaying Black rastar. Maximum is measured when displaying Pixel-checkers.

3) Current capacity for Vsa power source should be larger than 3A.

#### (2) BACK-LIGHT UNIT

Ta=25C

ITEM	SYMBOL	MIN	TYP.	MAX.	UNIT	NOTE
		2. 0	3. 5	5. 0	mArms	1)
Lamp Current	I.	-	-	7. 0	mA0-peak	
Lamp Voltage	V.	-	595	660	Vrms	
Frequency	fL	-	50	-	kHz	2)
		-	-	930	Vrms	
Starting Lamp Voltage	V,		-	1620	- vims	3)

- Note 1) Higher I cause the short life time of CFL
  - 2) Lamp frequency may produce interference with Hayno frequency, causing beat or fliker on the display. Therfore lamp frequency shall be as different as possible from Haync frequency, to avoid interference.
  - 3) Ta40C
  - 4) Regarding output voltage of transformer on inverter circuit, when output is open, more than 1700V is recommended.

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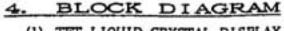
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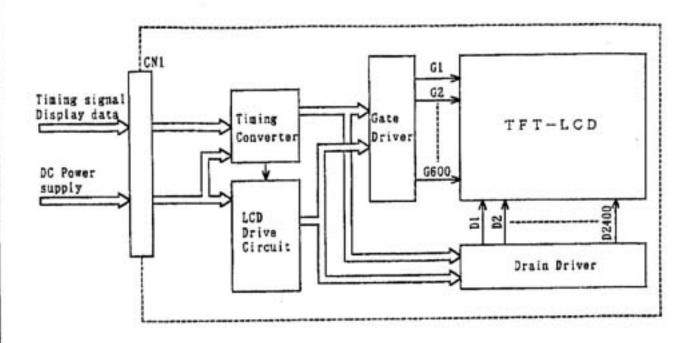
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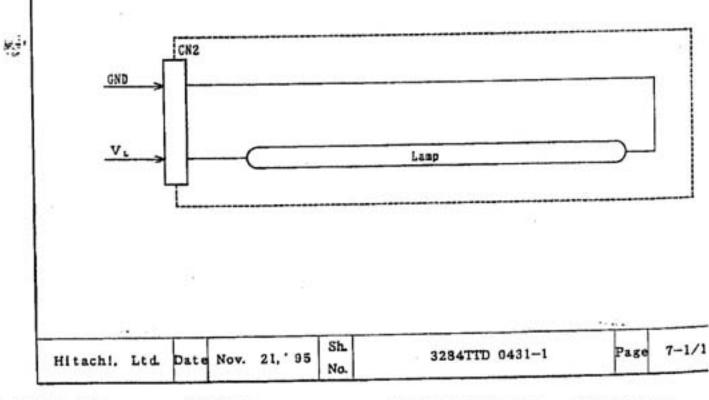




(1) TFT LIQUID CRYSTAL DISPLAY MODULE



(2) BACK-LIGHT UNIT



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## INTERFACE PIN ASSIGNMENT

(1) TFT LIQUID CRYSTAL DISPLAY MODULE

CNI CHIROSE: DF9B-41P-IV)

	SYMBOL		NOTE
1		GND (0V)	1)
2	DCLK	Dot Clock	
3	Vss	GND (OV)	1)
4	Hayne	Horizontal Synchronization	
5	Vayno	Vertical Synchronization	
6	Vss		1)
7	Vss	GND (OV)	1
8	Vss	(1997)	
9	RO		
10	R1	Red Data	1
ii	R2		1
12	Vss	GND (OV)	1)
13	R3		
14	R4	Red Data	1
15	R5		
18	Vss		1)
17	Vss	GND (0V)	
18	Vss		
19	GÖ	,	1
20	GI	Green Data	1
21	G2		
22	Vas	GND (OV)	1)
23	G3		
24	G4	Green Data	1
25	G5		
26	Vss		1)
27	Vss	GND (0V)	
28	Vss		
29	30		
 30	Bi	Blue Data	
31	82		
32	Vss	GND (0V)	1)
33	B3		
34	B4	Blue Data	
35	85		1)
36	Vss	GND (0V)	- 17
37	DTMG	Display Timing	_
38	VSS	GND (OV)	2)
39	V	Power Supply (+3. 3V)	41
40	V. e	FOREL GUPPLY (FOR AL)	3)

All Vss pins should be connected to GND (OV). Metal bezel is connected internaly to Vas.

All Ves pins shoule be connected to +3. 3V.
Keep open. Hitachi test use only.

(2) BACK-LIGHT UNIT

CN2 C	JST: BHR-	Power Supply	DESCRIPTION
1	VL	Power Supply	
2	CACA		
3	GND	CND (0V)	

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## RELATIONSHIP BETWEEN DISPLAYED COLOR AND INPUT DATA

	INPUT DATA			RD		1					DAT	4					DAT		
		R5		R3	R2	R1	P	100.00	_	G3	G2	GI			<b>B4</b>	<b>B</b> 3	<b>B2</b>	B1	BO
COLOR		MSB				1	LSE	MSE	3		1	!	LSE	MSE	3	1	!	!	LS
	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	RED (0)	17	1	1	1	1	77	0	0	0	0	0	0	0	0	0	0	0	]_(
	GREEN (0)	0	0	0	0	10	10	1	1	1	1	1	1 1	0	10	10	10	0	1
BASIC	BLUE (0)	0	0	0	0	0	10	0	0	0	0	0	0		[]	1		1	
COLOR	CYAN	0	0	0	0	F 0	0	1	T	īī	1	1	1	1	[]	1	1	1	
	MAGENTA	17	1	T	1	T	11	10	0	10	0	0	10	1	1	1	11	1	
	YELLOW	17	1	1		TI	1	1	I	-	17	1	1	0	0	0	0	0	1 (
	WHITE	1	1	ī	1	T	T	1	1	T	77	1	1	1	1	1	1	1	
	BLACK	0	0	0	0	LO	10	0	0	1 0	10	10	0	0	_0	0	10	10	1
	RED (62)	0	0	0	0	0	7.1	0	0	0	0	0	0	0	0	0	0	0	I
	RED (61)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	17
nen		1:	1	1	1:	1:	!:	1:	! :	1:	! :	1:	:	:	1	:	:	:	1
RED	:	1:	:	:	:	1 :	1:	:	1 :	1.:	1:	1:	i_E	1:	ĿĿ.	1.:	1:	1:	1
	RED (2)	11	77	77	17	. 0	T	0	.0	10	0	0	0	0	0	0	0	0	
	RED (1)	17	TT	TT	1	TI	0	0	0	10	0	0	0	0	0	0	10	0	10
	RED (0)	17	TT	11	17	T	īī	0	0	10	0	10	0	0	0	0	i 0	0	
	BLACK	0	0	0	0	; 0	10	0	0	0	0	0	0	0	0	0	0	0	
	GREEN (62)	0	0	10	0	10	10	10	0	0	10	10	! 1	0	0	1 0	10	10	1
	GREEN (81)	10	0	10	0	10	10	10	0	0	10		0	0	0	0	0	0	
comm.	1	T	77	177	1:	13	7:	7:	T :	1	Ti	13	1		1:	1 :	:	:	1
GREEN		1:	:	1 :	1 :	1 :	1:	:	1:	1:	1:	1:	1:	1	Li.	1:	1:	1:	1
	GREEN (2)	10	0	0	0	10	70	17	I	1	11	0	1	0	0	0	10	0	1
	GREEN (1)	10	0	10	0	10	0	11			$\Pi$	1	0	0	0	0	0	0	
	GREEN (0)	10	0	10	0	10	10	77	11	11	11	1	! 1	0	0	10	10	0	10
	BLACK	10	0	0	0	10	10	0	0	0	10	0	0	0	10.	10	10	0	1.5
	BLUE (62)	10	0	, 0	0	FO	0	0	0	0	10	0	0	0	10	0	10	[0]	1_
	BLUE (61)	10	0	! 0	1 0	10	10	0	10	10	10	10	10	0	10	10	10	11	15
D1.13		T:	11	1:	1:	13	1:	1:	1:	1:	:	i :	į :	1:	1 :	1 :	1 :	1 :	1
BLUE	:	1:	:	! :	1:	1:	1:	1:	13.	1:	1:	L:	1:	1:	Li.	L	1:	Li.	1-
	BLUE (2)	10	0	10	10	0	10	0	0	10	10	10	10	1	11	11	11	10	4-3
	BLUE (1)	10	F 0	10	0	0	0	0	0	0	10	0	10	1	1 1	11	11	11	1-9
	BLUE (0)	10	50	0	10		0	0	: 0	0	10	0	0	1	1	1 1	1 1	1	1

Note 1) Definition of gray scale :

Color (n) ... n indicates gray scale level. Lower n means brighter level.

2) Data : 1:Hi, 0:Lo

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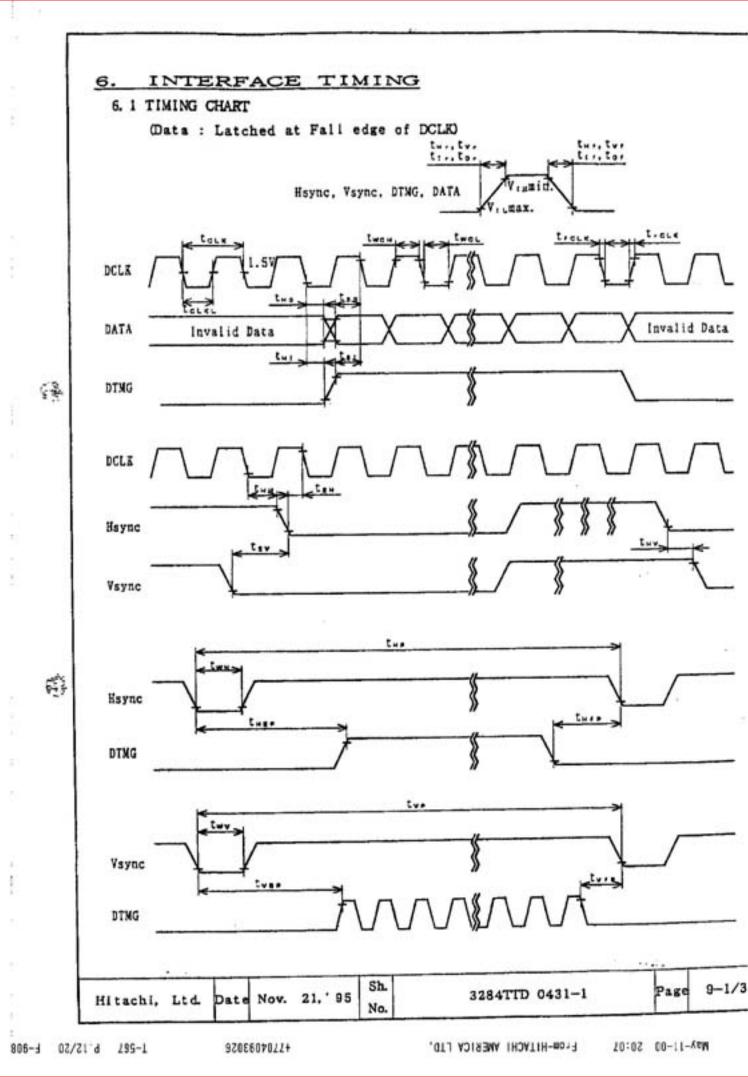
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Global LCD Panel Exchange Center





# 6. 2 INTERFACE TIMING SPECIFICATION

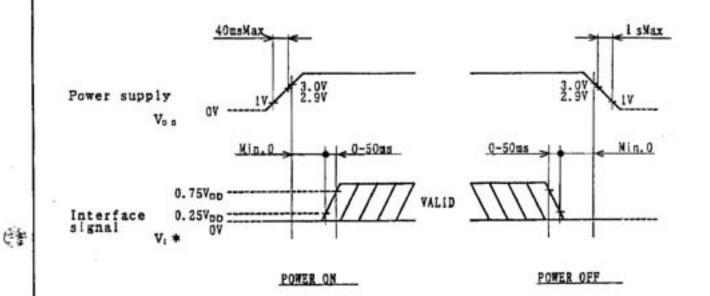
	ITEM	SYMBOL	MIN	TYP.	MAX.	UNIT	NOTE
	Period	tore	25	(26)	-		
	Width-Low	tecs	8	-	-	1	
DOI 15	Width-High	tres	8	-	-	ns	
DCLK	Rise Time	tress	-	-	25		
	Fall Time	tress	-	-	25	1	
	Duty	D	0. 45	0. 5	0. 55	-	D=tours/tou
	Set up Time	tix	6	-	-	ns	for DCLK
	Hold Time	tex	6	-	-	ns ns	TOT DOLLA
Hsync	Period	ter	1052-tase	(1024)	1200	tass	
	Width-Active	tes	8	-	120	cere	
	Rise/Fall Time	tar, ter	-	-	30	ns	
	Set up Time	tsv	0	-	-	1	for Hayne
	Hold Time	tur	2	-	-	ters	101 Hayac
Vsync	Period	t.,	603	(625)	1000		
	Width-Active	t	1	-	24		
	Rise/Fall Time	t.,. t.,	-	-	50	ns for DCLK	
	Set up Time	t. :	6	-	-		for DCLK
	Hold Time	ter	6	-	-	I As	TOT DOM
	Rise/Fall Time	t: . , t: :		-	30	ns	
	Horizontal Back Porch	tess	32	-	-	ters	
DTMG	Horizontal Front Porch	turr	16	-	-	Cett	
	Vertical Back Porch	tvar	0	-	-	ta,	
	Vertical Front Porch	tv,,	3	-	-		
	Set up Time	tso	6	-	-	ns	for DCLK
DATA	Hold Time	tes	6	-	-		
	Rise/Fall Time	to , , to ,	-	-	25	ns	Lanca year come

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\* Set OV ≤ V, (t) ≤ V, (t). Here,  $V_i$  (t),  $V_{a\,a}$  (t) indicate the transitive state of  $V_i$ ,  $V_{a\,a}$  when power supply is turned CN or OFF.

NOTE 1) Do not keep interface signal high-impedance when power on.

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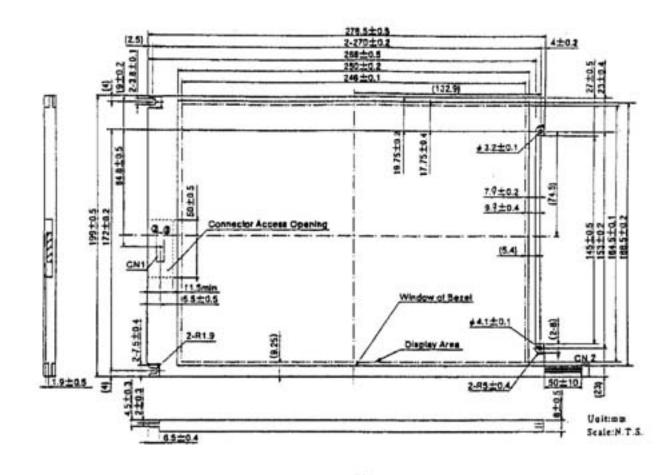
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## Note

- 1) CN1 : Hirose DF9B-41P-IV Mating side connector DF9\*-41S-1V
- CN2 : J. S. T. BHR-03VS-1 Cable length is about Mating side connector SM02 (8. 0) B-BHS-TB
- Tolerance not specified is ±0.5mm.
- 4) Dimensions in parenthesis are reference value.
- 5) Position, size and form of tab and grooves on Metal bezel are not specified

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E-808 DS/SI.9 Tab-T

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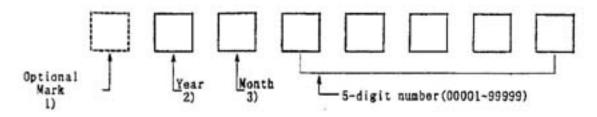
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# 8. DESIGNATION OF LOT MARK

## 8. 1 LOT MARK



NOTE 1) Optional Mark for HITACHI.

#### 2) Year

(3)

(3)

Year	' 95	' 96	' 97	. 98	. 98	2000	. 01	' 02	. 03	' 04	' 05
Mark	5	6	7	8	9	0	1	2	3	4	5

#### Month

Month	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Mark	A	В	С	D	E	F	G	Н	J	ĸ	L	М

#### 8. 2 LOCATION OF LOT MARK

Lot mark is printed on Label. And Label is attached to the surface of Metal bezel.

The form of character will be changed without notice.

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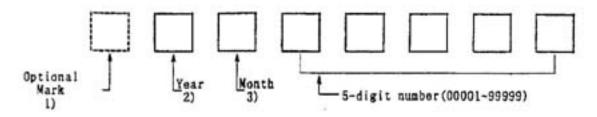
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# 8. DESIGNATION OF LOT MARK

## 8. 1 LOT MARK



NOTE 1) Optional Mark for HITACHI.

#### 2) Year

(3)

(3)

Year	' 95	' 96	' 97	. 98	. 98	2000	. 01	' 02	. 03	' 04	' 05
Mark	5	6	7	8	9	0	1	2	3	4	5

#### Month

Month	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Mark	A	В	С	D	E	F	G	Н	J	ĸ	L	М

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#### 10. 2 OPERATING PRECAUTION

- (1) The spike noise causes the mis-operation of circuits. Be lower the spike noise as follows:
  - $V_{00} = \pm 200 \text{mV}$ ,  $V_1 = \pm 200 \text{mV}$  (Over and under shoot voltage)
- (2) Response time depends on the temperature. (In lower temperature, it becomes longer).
  - And also Transmittance and Color depend on the temperature.
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower).
  - And in lower temperature, response time (required time that brightness is stable after turn on) becomes longer.
- (4) Be carefull for condensation at sudden temperature change. Condensation make damage to polarizer or electrical contact part. And after fading condansation, smear or spot will occur.
- (5) When fixed patterns are displayed at long times, afterimage is likely to occur.
- (6) Module has high frequency circuit. If you need to shield the electromagnetic noise, please do in yours.
- (7) When Back-light unit is operating, it sounds.
  If you need to shield the noise, please do in yours.
- (8) Please connect the Back-light connector to the inverter circuit directly.
  The long cable between CFL and the inverter may cause the brightness drop of CFL and may cause the rise of starting lamp Voltage (Vs).
- (9) Do not connect or remove the module from main system with power applied.

#### 10. 3 ELECTROSTATIC DISCHARGE CONTROL

Since Module is composed with electronic circuit, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through list band etc. And don't touch I/F pin directry.

10. 4 PRECAUTION FOR STRONG LIGHT EXPOSURE

Strong light exposure causes degradation of polarizer and color filter.

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## 10. 5 STORAGE

When storing Module as spares for long time, the following preccautions are necessary.

- (1) Store them in a dark place; do not expose then to sunlight or fluorescent light.
  - Keep the temperature between 5°C and 35°C at normal humidity.
- (2) The polarizer surface should not come in contact with any other object.
  - It is recommended that they be stored in the container in which they were shipped.

## 10. 6 HANDLING PRECAUTIONS FOR PROTECTION FILM

- (1) When the protection film is pealed off, static electricity is generated between the film and the polarizer. This film should be pealed off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition. etc.
- (2) The protection film is attached to the polarizer with a small amount of glue. If some stress is applied to rub the protection film against the polarizer during the time you peal off the film, the glue is apt to remain more on the polarizer. So please carefully peal off the protection film without rubbing it against the polarizer.
- (3) When the Module with protection film attached is stored for long time, sometimes there remains a very small amount of glue, still on the polarizer after the protection film is pealed off. Please refrain from storing the Module at the high temperature and high humidity for glue is apt to remain in these condition.
- (4) The Glue may be taken for the Modules failure, but you can remove the Glue easily.

When the glue remains on the polarizer surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with Normal-hexane.

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# 10. 7 SAFETY

- (1) If Module is broken, be careful to handle not to injure. (TFT/LCD and Lamp are made of glass.)
  Please wash hands sufficiently when you touch the liquid crystal coming out from broken LCDs.
- (2) As it is possible for PCB or other electronic parts of module to smell to smoke and to take fire because of the short circuit. Please design the circuit of your instrument not to flow the electric current to TFT/LCD module more than IA (by apply the fuse for example).
- (3) As Back-light unit has high voltage circuit internal, do not open the case and do not insert foreign materials in the case.

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